

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Zelder b.v.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *thirteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (7 U.S.C. 2321 ET SEQ.)

CHEWING FESCUE

'Agram'



In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 25th day of January in
the year of our Lord one thousand nine
hundred and seventy-nine

Attest:

Edward L. Kane
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Robert B. Dwyer
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

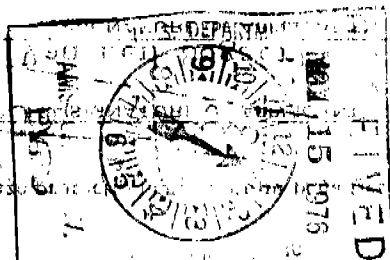
INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY ZB 13		1b. VARIETY NAME AGRAM		FOR OFFICIAL USE ONLY PV NUMBER: 7700032	
2. KIND NAME Chewing fescue		3. GENUS AND SPECIES NAME Festuca Rubra ssp. Commutata		FILING DATE 1-25-77	TIME 1:00 P.M.
4. FAMILY NAME (BOTANICAL) Gramineae		5. DATE OF DETERMINATION March 1975 per letter 3/29/77		FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	DATE 1-25-77 3-8-77 11-14-78
6. NAME OF APPLICANT(S) Zelder b.v.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Landgoed Zelder, Ottersum. The Netherlands		8. TELEPHONE AREA CODE AND NUMBER 08851-8124	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) same as 6		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION The Netherlands		11. DATE OF INCORPORATION 1948	
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers: Otto Pick and Sons Seed Ltd., Box 126, Richmond Hill, Ontario Canada, L 4 C4 X9.					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED: <input checked="" type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> 13B. Exhibit B, Novelty Statement. <input checked="" type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) <input checked="" type="checkbox"/> 13D. Exhibit D, Additional Description of the Variety.					
14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>					
14B. Does the applicant(s) specify that this variety be limited as to number of generations? YES <input type="checkbox"/> NO <input type="checkbox"/>		14C. If "Yes," to 14B, how many generations of production beyond breeder seed? FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED <input type="checkbox"/>			
15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>					
16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.					

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

November 9th, 1976
(DATE)

(SIGNATURE OF APPLICANT)



INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

13 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.

- ☒ **13a** Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2), the details of subsequent stages of selection and multiplication; (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

AGRAM CHEWINGS FESCUE

PLANT VARIETY PROTECTION EXHIBITS13 a - Exhibit A

Original material of the variety Agram was collected in 1956 at the Zelder estate near Ottersum. Collected genotypes were propagated clonally and selection took place for colour, plant habit, leaf blade characteristics, disease resistance etc. Selected genotypes were allowed to interpollinate and so produce seed, which was sown in lawn trials. Turf characteristics were observed and compared with existing varieties extensively, after which selective multiplication started to yield the present variety.

Agram is reproduced by a number of the selected clones, while basic seed is also kept in treasury. The stability of Agram has been ascertained by the Dutch Institute for Research on Varieties of Field Crops (I.V.R.O.) at Wageningen, The Netherlands.

13 b - Exhibit B

Novelty of the variety Agram is based on a combination of the following characteristics:

1. Fairly late to late heading date: 50 % heading at about the same date as Jamestown and 15 days later than Highlight.
2. The leaf sheath at the plant base is red coloured.
3. In respect to characters 1 and 2 Agram resembles the varieties Atlanta, Barfalla, Halifax and Waldorf, but it differs from Atlanta by a less erect growth habit and narrower flagleaf, and it differs from the other three mentioned varieties by a narrower flagleaf and darker colour of the leaf blade.
4. Compared to other varieties Agram has a fine to very fine leaf texture, develops a very dense turf and is medium green to fairly dark green in colour. The variety has good resistance to various diseases, especially to Fusarium and Corticium.

Agram was registered in the Netherlands; the registration research authorities found the variety to be clearly distinct from all other varieties in the same crop and considered Agram to be a new variety.

13 c - Exhibit C

Objective description form is attached. Most numerical data have been obtained from the Dutch Institute for Research on Varieties of Field Crops at Wageningen, The Netherlands.

13 d - Exhibit D

In seed production fields Agram is a fairly late to late maturing variety. Flowering and seed head development are very good, seed yield is high. Plant height in both early and later stages of development is short to medium. The growth habit is semi-erect to fairly prostrate.

AGRAM - CHEWINGS FESCUE

PLANT VARIETY PROTECTION EXHIBIT B.

The variety Agram most closely resembles the variety Jamestown, but differs in the following characteristics: Agram has closed leaf blades, it has shorter culmlength and narrower flagleaf than Jamestown, and is more resistant to mildew and Fusarium than Jamestown under Dutch circumstances.

Numerical data:

	<u>AGRAM</u>	<u>JAMESTOWN</u>
Culmlength mm.	8,00	940
Flag leaf width mm.	2.1	2.6
Resistance to mildew ⁺	6.9	4.3
Resistance to fusarium ⁺	7.8	4.0

⁺ 1 = very susceptible

10 = absolutely resistant



ZELDER b.v.
Landgoed Zelder
OTTERSUM - HOLLAND

BREEDINGSTATION
ZUCHTBETRIEB
STATION D'AMÉLIORATION
KWEKBEDRIJF

telephone: (08851) 8124/8144

telex : 48239

banker : Rabo Ottersum
14.06.00.396

giro : 1038120

United States Department of Agriculture,
Agricultural Marketing Service,
Grain and Seed Division,
National Agricultural Library,
BELTSVILLE - MARYLAND 20705.
UNITED STATES OF AMERICA

Att.: Mr. J.J. Higgins, Examiner, Plant Variety Protection Office.

your ref.:

Ottersum, march 29th, 1977.

our ref.: CB/TF

Dear Mr. Higgins,

In reply to your letter of february 23, regarding Application No. 7700032 Chewings fescue Agram, we can give you the following additional information.

As to Exhibit A: In Agram no variants occur. Of course there is variation in numerical characteristics, but the coefficient of variation is very well within the limits posed by the Dutch registration authorities, who hence consider Agram to be a homogeneous variety. We were able to show that Agram is a stable variety by sending seed of different generations to the Dutch registration authorities. They examined and compared these generations and concluded that the variety remained stable through the generations.

As to Exhibit B: Following your remarks on the novelty statement, we would like to add the enclosed statement, where we compared Agram with one variety, that resembles Agram most closely and we indicated the differences.

As to Exhibit C: Additional information on panicle characteristics and seed size will be sent to you by august 1977, as we will have no flowering plants before that time.

Date of determination: march 1975.

Hoping this information will do,

c.c.: Otto Pick & Sons Seeds Ltd.

Sincerely yours,
ZELDER B.V.

Ir. C.W. Van Den Bogaert.

For seedtrading



DRIES zaden b.v.

For new varieties



ZELDER b.v.

Registrationno. Venlo 11270 - Registered office at Ottersum

Member of the I.B.A.
International Breeders
Association

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
FESCUE
(Festuca spp.)

NAME OF APPLICANT(S)

ZELDER BV

VARIETY NAME OR TEMPORARY DESIGNATION

AGRAM

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

LANDGOED ZELDER, OTTERSUM, THE NETHERLANDS

FOR OFFICIAL USE ONLY

PVPO NUMBER

7700032

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. 089 or 099) when number is either 99 or less or 9 or less. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: _____ Describe location of test area **THE NETHERLANDS**

All questions need not be answered, however, completeness should be striven for in order to establish the most adequate Variety Identification.

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

- 3 1 = F. ARUNDINACEA (TALL) 11 = ALTA 12 = FAWN 13 = GOAR 14 = KENTUCKY 31
2 = F. PRATENSIS (MEADOW) 21 = ENSIGN 22 = TRADER
3 = F. RUBRA SSP. COMMUTATA (CHEWINGS) 31 = CASCADE 32 = HIGHLIGHT 33 = JAMESTOWN
4 = F. RUBRA SSP. RUBRA (RED) 41 = BOREAL 42 = PENNLAWN 43 = DAWSON
5 = F. OVINA VAR. OVINA (SHEEP)
6 = F. LONGIFOLIA (HARD) 61 = DURAR 62 = BILJART (C-26) 63 = SCALDIS
7 = OTHER (SPECIFY) F. _____

2. CYTOLOGY42 2n CHROMOSOME NUMBER**3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)**

2 NORTHEAST 0 SOUTHEAST 2 NORTH CENTRAL 2 PACIFIC N.W. OTHER (SPECIFY) _____

4. MATURITY: (50% Headed) Give Test Area The Netherlands

DAYS EARLIER THAN
Maturity SAME AS 33 } COMPARISON VARIETY
15 DAYS LATER THAN 32 }

5. PLANT HEIGHT: (At maturity to top of panicle)

800 mm HEIGHT
40 mm SHORTER THAN 32 } COMPARISON VARIETY
HEIGHT SAME AS
 mm TALLER THAN

6. GROWTH HABIT (Mature)

2 1 = ERECT (KENTUCKY 31) 2 = SEMI-ERECT (HIGHLIGHT) 3 = PROSTRATE

7. RHIZOMES

mm LENGTH mm WIDTH **5**
0 0 = ABSENT 1 = WEAKLY CREEPING (DAWSON) 2 = STRONGLY CREEPING (BOREAL) 3 = OTHER _____

8. LEAF BLADE:

3 COLOR: 1 = LIGHT GREEN (GOLFRUOD) 2 = MODERATELY LIGHT GREEN (HIGHLIGHT) 3 = MEDIUM GREEN (JAMESTOWN, KENTUCKY 31)
4 = DARK GREEN (CASCADE) 5 = BLUEGREEN 6 = GRAYGREEN 7 = OTHER (SPECIFY) _____

8. LEAF BLADE:

ANTHOCYANIN: 0 = ABSENT 1 = PRESENT HAIRS (BASAL): 0 = ABSENT 1 = PRESENT MARGINS: 1 = SMOOTH
 2 = SEMI-ROUGH
 3 = ROUGH

mm LENGTH (FIRST LEAF BELOW FLAG LEAF) mm WIDTH

mm SHORTER THAN mm NARROWER THAN

LENGTH SAME AS WIDTH SAME AS

mm LONGER THAN mm WIDER THAN

COMPARISON VARIETY

9. LEAF SHEATH (Plant Base):

COLOR: 1 = WHITE (HIGHLIGHT) 2 = RED AURICLE HAIRINESS: 0 = ABSENT 1 = PRESENT

10. PANICLE (Mature plant)

NUMBER OF PANICLES PER PLANT (FIRST YEAR OF PRODUCTION - FALL OR SPRING PLANTING SPECIFY _____)

mm LENGTH GRAMS OF SEED PER PANICLE

mm SHORTER THAN GRAMS LESS SEED THAN

LENGTH SAME AS WEIGHT SAME AS

mm LONGER THAN GRAMS MORE SEED THAN

SHAPE: 1 = NARROW-TAPERING 2 = EGG SHAPE 3 = OBLONG 4 = OTHER (SPECIFY) _____

TYPE: 1 = OPEN 2 = INTERMEDIATE 3 = COMPACT

HABIT: 1 = ERECT 2 = NODDING

BRANCHES: 1 = SMOOTH 2 = ROUGH

COLOR (At 50% flowering): 1 = YELLOWISH GREEN 2 = GREEN 3 = BLUISH GREEN 4 = PURPLISH 5 = REDDISH
 6 = OTHER (SPECIFY) _____

11. PALEA:

HAIRS (ON KEELS): 0 = ABSENT 1 = SHORT (OLDS) 2 = LONG (RAINIER)

12. LEMMA:

HAIRS: 0 = ABSENT 1 = PRESENT TEXTURE: 1 = SMOOTH 2 = ROUGH

mm LEMMA LENGTH mm LEMMA WIDTH

mm SHORTER THAN mm NARROWER THAN

LENGTH SAME AS WIDTH SAME AS

mm LONGER THAN mm WIDER THAN

AWNS: 0 = ABSENT 1 = PRESENT

mm AWN LENGTH

12. LEMMA:

<input type="text"/>	mm SHORTER THAN	<input type="text"/>	} COMPARISON VARIETY
	LENGTH SAME AS	<input type="text"/>	
<input type="text"/>	mm LONGER THAN	<input type="text"/>	

13. SEED:

<input type="text"/>	mm LENGTH	<input type="text"/>	mm WIDTH		
<input type="text"/>	mm SHORTER THAN	<input type="text"/>	} COMPARISON VARIETY		
	LENGTH SAME AS	<input type="text"/>			
<input type="text"/>	mm LONGER THAN	<input type="text"/>			
<input type="text"/>		<input type="text"/>	mm, NARROWER THAN	<input type="text"/>	} COMPARISON VARIETY
		<input type="text"/>	WIDTH SAME AS	<input type="text"/>	
<input type="text"/>		<input type="text"/>	mm WIDER THAN	<input type="text"/>	

0 9 3 5 GRAMS PER 1000 SEED

0 1 6 0 GRAMS LESS THAN } COMPARISON VARIETY

WEIGHT SAME AS }

GRAMS MORE THAN }

14. DISEASE, INSECT, AND NEMATODE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="checkbox"/> <u>HELMINTHOSPORIUM VAGANS</u>	<input type="checkbox"/> <u>H. SOROKINIANUM</u>	<input type="checkbox"/> <u>H. DICTYOIDES</u>
<input type="checkbox"/> <u>RHIZOCTONIA SOLANI</u>	<input type="checkbox"/> <u>2 ERYSIPIHE GRAMINIS</u>	<input type="checkbox"/> <u>USTILAGO STRIIFORMIS</u>
<input type="checkbox"/> <u>2 FUSARIUM NIVALE</u>	<input type="checkbox"/> <u>F. ROSEUM</u>	<input type="checkbox"/> <u>TYPHULA IOTANA</u>
<input type="checkbox"/> <u>PUCCINIA GRAMINIS</u>	<input type="checkbox"/> <u>P. STRIIFORMIS</u>	<input type="checkbox"/> <u>P. POAE-NEMORALIS</u>
<input type="checkbox"/> <u>P. CORONATA</u>	<input type="checkbox"/> <u>PYTHIUM ULTIMUM</u>	<input type="checkbox"/> <u>2 CORTICIUM FUSCIFORME</u>
<input type="checkbox"/> <u>SCLEROTINIA HOMEOCARPA</u>	<input type="checkbox"/> INSECT _____	<input type="checkbox"/> NEMATODE _____
<input type="checkbox"/> OTHER _____	<input type="checkbox"/> OTHER _____	<input type="checkbox"/> OTHER _____

15. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate degree of resemblance (D.R.) by placing in the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety

2 = Same as

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D. R.	
RHIZOME LENGTH			GROWTH HABIT			
LEAF WIDTH	Jamestown	1	LEAF COLOR	Highlight	3	
PANICLE COLOR			PANICLE SHAPE			
WINTER COLOR	Highlight	3	COLD INJURY			
SHADE TOLERANCE			HEAT			
DROUGHT			DISEASE*	Fusarium	Highlight	2
				Corticium	Highlight	3
				Corticium	Jamestown	3
				Fusarium	Jamestown	3
				Erysiphe	Jamestown	3
				Erysiphe	Highlight	2

*Specify each disease evaluated.

*Specify each disease evaluated.